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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/708,442 03/03/2004		03/03/2004	Tien-Tzu CHEN	AITP0007USA	2441	
27765	7590	04/13/2005		EXAMINER		
		INTERNATIONA	CUNNINGHAM, TERRY D			
P.O. BOX 50 MERRIFIEL	-	22116	ART UNIT	PAPER NUMBER		
				2816		
				DATE MAILED: 04/13/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
		10/708,442		CHEN ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Terry D. Cu	•	2816				
Period fo	The MAILING DATE of this communication reply	on appears on the	cover sheet with the c	orrespondence a	ddress			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati a period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no even ion. s, a reply within the statut period will apply and will r statute, cause the applic	t, however, may a reply be time ory minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONEI	nely filed s will be considered time the mailing date of this O (35 U.S.C. § 133).				
Status								
1)🖾	Responsive to communication(s) filed on	04 March 2005.						
		This action is no	n-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims	•						
5)□ 6)⊠ 7)□	Claim(s) 1-8,11-18 and 20 is/are pending 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1-8,11-18 and 20 is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction is	thdrawn from con	sideration.					
Applicat	ion Papers							
10)⊠	The specification is objected to by the Example The drawing(s) filed on 30 March 2004 is/Applicant may not request that any objection to Replacement drawing sheet(s) including the of The oath or declaration is objected to by the specific to the specific to the specific to the specific transfer of transfer o	/are: a)⊠ accepto to the drawing(s) be correction is required	held in abeyance. See	e 37 CFR 1.85(a). ected to. See 37 C	CFR 1.121(d).			
Priority (under 35 U.S.C. § 119							
12)□ a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Bee the attached detailed Office action for	iments have been iments have been e priority documer Bureau (PCT Rule	received. received in Applications have been received 17.2(a)).	on No ed in this Nationa	l Stage			
Attachmen	• •							
	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-94	18)	l) Interview Summary Paper No(s)/Mail Da					
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/Ser No(s)/Mail Date 3/4/05.	SB/08)	5) Notice of Informal P Other:		O-152)			

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DETAILED ACTION

Summary of changes in this action

1. The amendment overcomes the rejections under 35 U.S.C. § 112, first paragraph.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9, 11-18 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsai (USPAP 2002/0130703).

With respect to claims 1-9 and 11-16, Tsai discloses, in Fig. 5, a circuit comprising: "a first clock signal (Vphi1 provided to the capacitor in 116)"; "a second clock signal (Vphi2 provided to the capacitor in 108)"; "a first capacitor (capacitor in 116)"; "a second capacitor (capacitor in 108)"; "a first former-stage clock signal (Vphi1 provided to 124)"; "a second former-stage clock signal (vphi2 provided 132)"; "a first former-stage capacitor (132)"; "a second former-stage capacitor (124)"; "a first switching circuit (128)"; "a second switching circuit (120)"; "a first current reversing circuit (CMOS arrangement connected to the gate of 134)"; and "a second current reversing circuit (CMOS arrangement in 108)", all connected and operating similarly as recited by Applicant. The reference to Tsai expressly discloses that that the clock signals are non-overlapping.

With respect to claims 17, 18 and 20, clearly the above circuit to Tsai will provide the recited method.

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Examiner has fully considered Applicant's remarks for the above rejection and has not found them to be persuasive. Contrary to Applicant's remarks, the claims fail to state which pulse or cycle of the clock signals are being referred to. As seen in Fig. 2 of Tsai, the first falling edge of Vphi2 occurs before the first falling edge of Vphi1 and the last rising edge of Vphi1 occurs before the last rising edge of Vphi2. Thus, the reference to Tsai meets the claim language.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Reference is specifically made to the reference of Thorp et al. and the newly cited reference to Iwata (cited by Applicant).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742.

The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC April 11, 2005 Primary Examiner Art Unit 2816